

46. (Thrice Amended) Process which comprises: coating substrates with a polar coating, wherein the coating takes place by means of plasma polymerization; including the step of employing a water-free process gas which contains at least one substituted hydrocarbon compound with up to a maximum of 8 C-atoms and also an inorganic gas, to produce a coating which is stable in the long term; wherein the polar coating has an initial surface tension of ≥ 45 mN/m, which remains unchanged for at least one year.